

Wii U Master Editor Manual

2014/05/01

Version 1.11

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1 Introduction

This document describes how to use Wii U Master Editor, the tool for viewing, verifying, and preparing data for master ROM submission.

Note: This document only describes the basic navigation of the tool. For details on items that can be set using Master Editor and information that can be checked, see the *Wii U Master ROM Creation and Submission Procedures* (released separately).

1.1 Overview

Master Editor has three main features.

- Displays content configured with the Wii U Application Configuration Tool and information within applications.
- Performs simple checks of the guidelines and various manuals.
- Edits, saves, and exports company information and other data required for master ROM submission (submission data).

1.2 Running the Program

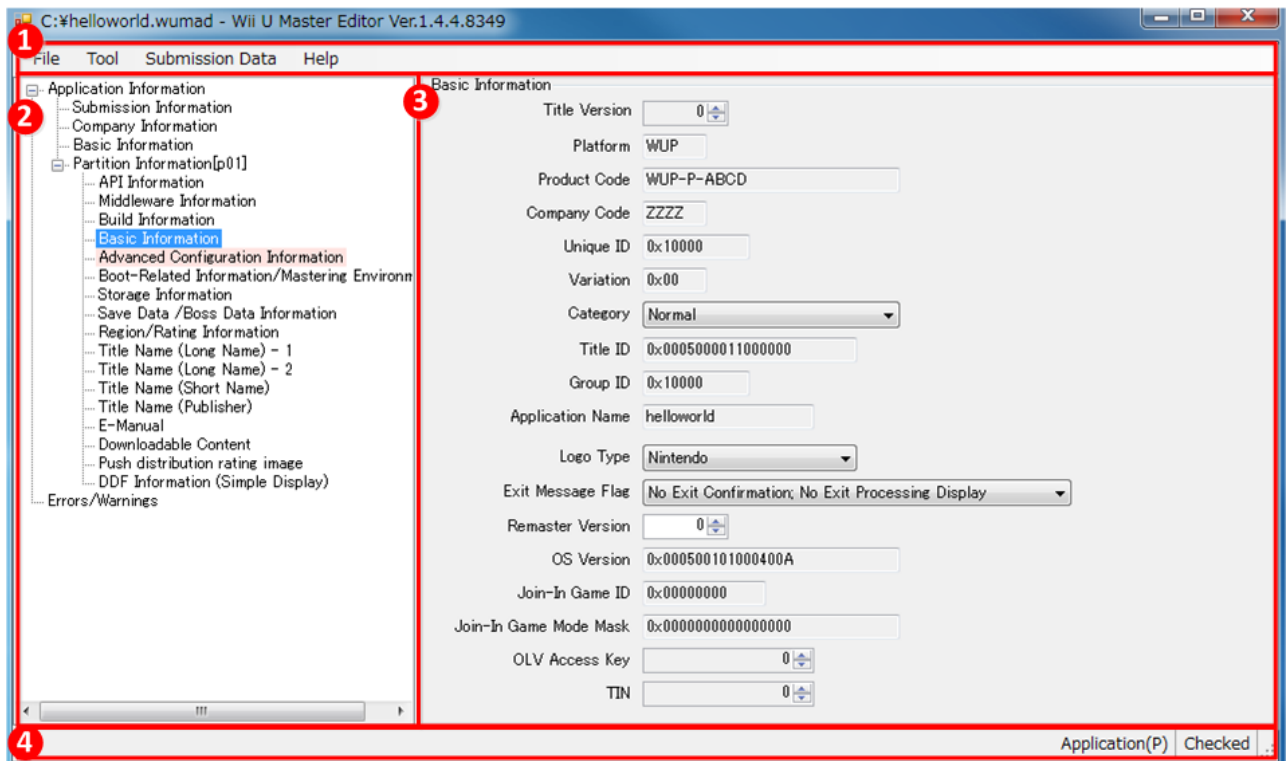
Run the `bin/mastereditor.exe` file included in the package.

See Chapter 4 Command Line Mode for information on how to run the program from the command line.

1.3 Structure

Running `mastereditor.exe` displays the following window.

Figure 1-1 Master Editor Overview



The menu bar (1) shown in the figure is used for opening and saving master ROM (WUMAD files) and exporting the files to be submitted. See Chapter 2 Basic Operations for details.

The tree structure (2) in the figure lists application settings by category and pages.

The window area (3) in the figure displays the settings for the category and page selected in the list.

The status bar (4) in the figure displays the type of disc master archive being edited. It also shows whether the entered content has been checked.

2 Basic Operations

2.1 File Menu

The table below lists **File** menu features.

Table 2-1 File Operations

Feature Name	Description
Open	Loads the WUMAD file and application settings into Master Editor. You can also load the WUMAD file by dragging it onto the Master Editor window. Once loading is complete, a check of the input content automatically occurs.
Save	Saves any content edited in Master Editor to the WUMAD file. During the save, a check of the input content automatically occurs. Note that this feature does not export any submission data.
Exit	Exits Master Editor.

2.2 Tool Menu

Use the **Tool** menu to do things like verifying and clearing data entered using Master Editor. The table below describes each of these features.

Table 2-2 Content Operations

Feature Name	Description
Verify Input Contents	Verifies whether there are any errors or warnings regarding entered content and submission information. If there are any errors or warnings, Master Editor then jumps to the Error/Warning window.
Clear Contents in Form	Clears content entered into Master Editor and restores the defaults. This does not clear content entered with the Application Configuration Tool, nor does it clear information within applications.
Calculate Hash	Calculates the following three items used for checking submission data. Check these items from Application Information > Basic Information > Hash Value (see Chapter 3 Application Information). • Header CRC (cyclic redundancy check) • Data CRC • Master Information CRC (value based on the submission/company information)
Replace File	This feature lets you replace the e-manual.

Feature Name	Description
Verify Continuity (P)	Verifies the continuity of WUMAD data. Clicking Check Master ROM Continuity (P) in the menu displays a dialog box that allows you to select one more WUMAD file. This feature can verify patch continuity according to the following patterns. • When there is master continuity and the old master is open in Master Editor • When there is master continuity and the new master is open in Master Editor • When there is no master continuity, but the content is the same as the master open in Master Editor • When there is no master continuity, but content is derived from the same master as the master open in Master Editor
Generate masterspecific.xml	Creates the input content information XML file (<code>masterspecific.xml</code>) from the GUI version for use by the CUI version. This is the XML version of data representing the items that can be configured by the Master Editor (the CUI version). The values for <code>masterspecific.xml</code> are set from the current settings content. For detailed information on the items and values that can be configured, see the <code>masterspecific.format.xls</code> spreadsheet file included in the package. Only generation of the <code>masterspecific.xml</code> file can occur in the GUI file; it cannot be used.
Settings	The Calculate Hash feature might take some time to finish. Specify the temporary directory under Tool > Settings and whether this should be calculated automatically when the WUMAD file is opened or loaded. You can set the GUI display language to either Japanese or English. If you select Auto, the language displayed is selected based on the language setting of the operating system. These changes take effect the next time you start Master Editor.
Managing External Checking Tools	You can install, update, and remove checking tools that are not included in Master Editor. If Nintendo informs you of a newly added checking tool, add it here.

2.3 Submission Data Menu

Use **Submission Data** menu to rename the data file and export submission data. These features are explained below.

2.3.1 Rename Data File

Converts the name of the currently open WUMAD file to a name properly formatted for submission, based on the initial code and submission version information.

Table 2-3 Filenames After Conversion

WUMAD Type	Filename After Conversion
Downloadable Content	UM_<initial code>_<variation>_<remaster version>.<submission version>.wumad
Not Downloadable Content	U<configuration code>_<initial code>_<remaster version>.<submission version>.wumad

An **E** is automatically appended to the filename and the following formats are used if Precheck Submission is selected under **Application Information > Submission information > Submission Reason**.

Table 2-4 Filenames After Conversion (With Precheck Submission Selected)

WUMAD Type	Filename After Conversion
Downloadable Content	UM_<initial code>_<variation>_<remaster version>.<submission version>E.wumad
Not Downloadable Content	U<configuration code>_<initial code>_<remaster version>.<submission version>E.wumad

2.3.2 Rename by Copying Data File

This leaves the filename of the WUMAD file currently open as is, but copies its content and creates a file with a filename that has been converted into the format for submissions.

2.3.3 Create Submission Data (XML+XSLT)

Creates a directory inside the one containing the WUMAD file and exports the submission data for Lotcheck to that new directory. The format of the output is XML+XSLT. Starting with Master Editor version 1.6.2, you can now select the language of the submission data (English or Japanese) in the GUI version of Master Editor. Select the language of the submission data after you select **Create Submission Data**.

2.4 The Help Menu

Select **Help > Version Information** to check the version of Master Editor.

3 Application Information

Application Information includes items that can be edited, and items that are read-only for checking purposes. The read-only items are automatically saved when using the Application Configuration Tool or during mastering.

See the *Wii U Master ROM Creation and Submission Procedures* for details about each editable item and what type of information is required.

3.1 Error/Warning

As described in Section 2.2 Tool Menu, the application jumps to the Error/Warning category when running **Verify Input Contents**. Double-click an error or warning to jump to the problem area. In most other respects, Master Editor's behavior is the same as that of the Application Configuration Tool, therefore see the *Application Configuration Tool Manual* for details.

Note: If validation results in an error stating that the hash mode of the APPXML or COSXML section names must be simple/single hash, you may be using an evaluation version of the Application Configuration Tool that is not authorized for use in master submissions. Even if you are using a version of the Application Configuration Tool that is authorized for master submissions, this error might still appear if an older version of the application configuration save data is loaded. To resolve, from the latest version of the Application Configuration Tool, select **File > Create New** and redo the application configuration.

4 Command Line Mode

4.1 Pre-Processing Mode (Feature for Batch-Setting Values)

If `-pre` is specified as an argument, then the WUMAD file is opened in Master Editor for the first time, the automatic settings are set and the WUMAD file is saved.

```
mastereditorc.exe -pre [options] [in:wumad file]
```

If you want to do the equivalent of opening the Master Editor window to set the various settings, but instead perform those operations from the command line, list the information in the supplied XML file (`masterspecific.xml`) for entering the information, and then specify that file as shown below. (See Section 4.9 XML File Containing the Input Information (`masterspecific.xml`))

```
mastereditorc.exe -pre [options] -sd=[in: masterspecific.xml] [in:wumad file]
```

4.1.1 Arguments

Table 4-1 Pre-Processing Mode Arguments

Argument	Description
<code>-pre</code>	Pre-processing mode
<code>[in:wumad file]</code>	Disc master archive file

4.1.2 Options

Table 4-2 Pre-Processing Mode Options

Option	Description
<code>-wd=path</code>	Change working directory (Default is user's temporary directory)
<code>-nc</code>	Do not check for empty space
<code>-v</code>	Show verbose logs
<code>-lang=value</code>	Display language (en=English, ja=Japanese, not specified/not recognizable: auto-selected)
<code>-sd=value</code>	Path to <code>masterspecific.xml</code>

4.1.3 Return Values

Table 4-3 Pre-Processing Mode Return Values

Return Value	Description
0	Success
10	Error
11	Too many arguments
40	Pre-processing failed

4.1.4 Description

The items that are automatically set in pre-processing mode are as follows.

- **Release date**
When the WUMAD file is first opened in Master Editor, the release date is set as the current date.
- **Document submission date**
When the WUMAD file is first opened in Master Editor, the submission date is set as the current date.
- **Master Editor version**
The version is set each time the WUMAD file is opened. The value does not change as long as the same file is opened with the same version of Master Editor.
- **Download size**
The download size is set each time the WUMAD file is opened. Generally the value does not change. However, due to changes in the way the size is calculated, currently the value is calculated each time the file is opened as a countermeasure against values calculated using previous methods.

The items automatically set in pre-processing mode are also automatically processed in other modes (excluding WUMAD checking mode and settings saving mode). Therefore, pre-processing mode can be omitted by handling the processing in other modes if functionality for batch-setting values is unnecessary.

4.2 Hash Calculation Mode

If `-hash` is specified as an argument, the hash value for the disc master archive file is calculated and saved in the WUMAD file.

```
mastereditorc.exe -hash [options] [in:wumad file]
```

4.2.1 Arguments

Table 4-4 Hash Calculation Mode Arguments

Argument	Description
-hash	Hash calculation mode
[in:wumad file]	Disc master archive file

4.2.2 Options

Table 4-5 Hash Calculation Mode Options

Option	Description
-wd=path	Change working directory (Default is user's temporary directory)
-nc	Do not check for empty space
-v	Show verbose logs
-lang=value	Display language (en=English, ja=Japanese, not specified/not recognizable: auto-selected)

4.2.3 Return Values

Table 4-6 Hash Calculation Mode Return Values

Return Value	Description
0	Success
10	Error
11	Too many arguments
50	Hash calculation failed

4.3 Submission Data Creation Mode

If -submit is specified as an argument, submission data is output.

```
mastereditorc.exe -submit [options] [in:wumad file]
```

4.3.1 Arguments

Table 4-7 Submission Data Creation Mode Arguments

Argument	Description
-submit	Submission data creation mode
[in:wumad file]	Disc master archive file

4.3.2 Options

Table 4-8 Submission Data Creation Mode Options

Option	Description
-wd=path	Change working directory (Default is user's temporary directory)
-nc	Do not check for empty space
-v	Show verbose logs
-lang=value	Display language (en=English, ja=Japanese, not specified/not recognizable: auto-selected)
-f	Overwrite existing files in the export destination

4.3.3 Return Values

Table 4-9 Submission Data Creation Mode Return Values

Return Value	Description
0	Success
10	Error
11	Too many arguments
60	Hash calculation failed
61	Submission data files or directories already exist

4.4 Renaming Mode

If `-rename` is specified as an argument, the disc master archive file is renamed.

```
mastereditorc.exe -rename [options] [in:wumad file]
```

4.4.1 Arguments

Table 4-10 Renaming Mode Arguments

Argument	Description
-rename	Renaming mode
[in:wumad file]	Disc master archive file

4.4.2 Options

Table 4-11 Renaming Mode Options

Option	Description
-wd=path	Change working directory (Default is user's temporary directory)
-nc	Do not check for empty space
-v	Show verbose logs
-lang=value	Display language (en=English, ja=Japanese, not specified/not recognizable: auto-selected)
-t=value	Specifies the renaming type. The value can be specified from among the following values. • <code>copy</code>: Copies the file and runs the renaming process • <code>-t</code> is not specified or an unrecognized value is specified: Runs normal renaming
-f	Overwrite existing files in the export destination

4.4.3 Return Values

Table 4-12 Renaming Mode Return Values

Return Value	Description
0	Success
10	Error
11	Too many arguments
70	Renaming process failed
71	Renaming is not necessary
72	A file with the new filename already exists

4.5 E-Manual Replacement Mode

If `-replace_emanual` is specified as an argument, the e-manual in the disc master archive file is replaced.

```
mastereditorc.exe -replace_emanual [options] [in:wumad file] [in:partition name]
[in:e-manual file]
```

4.5.1 Arguments

Table 4-13 E-Manual Replacement Mode Arguments

Argument	Description
<code>-rename</code>	E-manual replacement mode
<code>[in:wumad file]</code>	Disc master archive file
<code>[in:partition name]</code>	Name of the partition to replace (p01, p02, p03...)
<code>[in:e-manual file]</code>	E-manual file

4.5.2 Options

Table 4-14 E-Manual Replacement Mode Options

Option	Description
<code>-wd=path</code>	Change working directory (Default is user's temporary directory)
<code>-nc</code>	Do not check for empty space
<code>-v</code>	Show verbose logs
<code>-lang=value</code>	Display language (en=English, ja=Japanese, not specified/not recognizable: auto-selected)

4.5.3 Return Values

Table 4-15 E-Manual Replacement Mode Return Values

Return Value	Description
0	Success
10	Error
11	Too many arguments
80	Replacement process failed
81	The specified partition does not exist
82	The e-manual does not exist

4.6 WUMAD Checking Mode

If `-check` is specified as an argument, the content of the settings for the disc master archive file is checked. The process automatically exits upon completion.

```
mastereditorc.exe -check [options] [in:wumad file]
```

4.6.1 Arguments

Table 4-16 WUMAD Checking Mode Arguments

Argument	Description
<code>-check</code>	WUMAD checking mode
<code>[in:wumad file]</code>	Disc master archive file

4.6.2 Options

Table 4-17 WUMAD Checking Mode Options

Option	Description
<code>-wd=path</code>	Change working directory (Default is user's temporary directory)
<code>-nc</code>	Do not check for empty space
<code>-v</code>	Show verbose logs
<code>-lang=value</code>	Display language (en=English, ja=Japanese, not specified/not recognizable: auto-selected)

4.6.3 Return Values

Table 4-18 WUMAD Checking Mode Return Values

Return Value	Description
0	Success
10	Error
11	Too many arguments
90	WUMAD checking process failed

4.6.4 Description

Upon success (either 1 or 2), the GUI version outputs the content of the "Error/Warning" category to the console. The format of the output is "(name of item in question)" \t "(error content)" with one error (or warning) per line.

4.7 Settings Saving Mode

If `-save` is specified as an argument, the parameter specified in the options can be saved to a configuration file. The values saved for those settings will be used as the default values beginning the next time onward.

```
mastereditorc.exe -save [options]
```

4.7.1 Arguments

Table 4-19 Settings Saving Mode Arguments

Argument	Description
<code>-save</code>	Settings saving mode

4.7.2 Options

Table 4-20 Settings Saving Mode Options

Option	Description
<code>-wd=path</code>	Change working directory (Default is user's temporary directory)

4.7.3 Description

The setting values saved in this mode are under `C:\Users\UserName\AppData\Local\Nintendo\`.

The settings are saved for each user and each program path, so if the user or the location of the program changes, the settings revert to their default values.

4.8 Patch Continuity Verification Mode

If `-check_patch_continuity` is specified as an argument, the continuity of the specified patches is verified. The process automatically exits upon completion.

```
mastereditorc.exe -check_patch_continuity [options] [in:wumad file1]
[in:wumad file2]
```

4.8.1 Arguments

Table 4-21 Patch Continuity Verification Mode Arguments

Argument	Description
<code>-check_patch_continuity</code>	Specifies patch continuity verification mode
<code>[in:wumad file1]</code>	Specifies the first disc master archive file
<code>[in:wumad file2]</code>	Specifies the second disc master archive file

4.8.2 Options

Table 4-22 Patch Continuity Verification Mode Options

Option	Description
<code>-wd=path</code>	Change working directory (Default is the user's temporary directory)
<code>-nc</code>	Do not check for empty space
<code>-v</code>	Show verbose logs
<code>-lang=value</code>	Display language (en=English, ja=Japanese, not specified/not recognizable: auto-selected)

4.8.3 Return Values

Table 4-23 Patch Continuity Verification Mode Return Values

Return Value	Description
0	The second file is newer
120	The second file is older
121	The files represent the same patch
122	Patches are derived from the same data (have the same parent)
123	No continuity
124	Different masters (the product code differs, etc.)
10	Error
11	Too many arguments

4.8.4 Description

The tool compares the first WUMAD file with the second, and verifies the continuity of master data.

4.9 Hash Value Display Mode

When `-showhash` is specified as an argument, the hash value (CRC) recorded in the master header included in the disc master archive file and in the master information XML file is displayed.

```
mastereditorc.exe -showhash [options] [in:wumad file]
```

4.9.1 Arguments

Table 4-24 Hash Value Display Mode Arguments

Argument	Description
-showhash	Specifies hash value display mode
[in:wumad file]	Specifies the disc master archive file

4.9.2 Options

Table 4-25 Hash Value Display Mode Options

Option	Description
-wd=path	Change working directory (Default is the user's temporary directory)

Option	Description
-nc	Do not check for empty space
-v	Show verbose logs
-lang=value	Display language (en=English, ja=Japanese, not specified/not recognizable: auto-selected)

4.9.3 Return Values

Table 4-26 Hash Value Display Mode Return Values

Return Value	Description
0	Normal completion
10	Error
11	Too many arguments

4.9.4 Description

The information exported as a result of hash value display mode is as follows.

- Hash values recorded in the master header
 - Header CRC
 - Data CRC
 - Master information XML CRC
- Hash values recorded in the master information XML file
 - Header CRC
 - Data CRC (CRC16)
 - Master information XML CRC (CRC16)

4.10 Ratings Image for Push Distribution Replacement Mode

When `-replace_metarating` is specified as an argument, the replacement of the ratings image file for push distribution within the WUMAD file occurs.

```
mastereditorc.exe -replace_metarating [options] [in:wumad file]  
[in:partition name] [in:rating:image file]
```

4.10.1 Arguments

Table 4-27 Ratings Image for Push Distribution Replacement Mode Arguments

Argument	Description
-replace_metarating	Specifies ratings image for push distribution replacement mode
[in:wumad file]	Specifies the disc master archive file
[in:partition name]	Specifies the name of the partition where the replacement is to occur (p01, p02, p03...)
[in:rating:image file]	Specifies the rating and the image file name. The rating and image file are separated by a colon: rating:image path. For example, for CERO, it would be CERO_ja:cero.jpg. In addition, multiple ratings and images can be specified by inserting a space between each rating:image path pair, such as rating1:image path1 rating2:image path2. To delete an image, leave the image path portion blank. The values that can be specified for ratings are as follows. • CERO_ja • CGSRR_zh • COB_en • ESRB_fr • ESRB_en • GRB_ko • OFLC_en • PEGI_ru • PEGI_BBFC_en • PEGI_Portugal_pt • PEGI_it • PEGI_nl • PEGI_es • PEGI_de • PEGI_fr • PEGI_pt • PEGI_en • RAR_ru • USK_de

4.10.2 Options

Table 4-28 Ratings Image for Push Distribution Replacement Mode Options

Option	Description
-wd=path	Change working directory (Default is the user's temporary directory)
-nc	Do not check for empty space

Option	Description
-v	Show verbose logs
-lang=value	Display language (en=English, ja=Japanese, not specified/not recognizable: auto-selected)

4.10.3 Return Values

Table 4-29 Ratings Image for Push Distribution Replacement Mode Return Values

Return Value	Description
0	Normal completion
10	Error
11	Too many arguments
80	Replacement failed
81	Specified partition does not exist
83	WUMAD that does not correspond to the ratings image for push distribution (the METARATING section does not exist)

4.10.4 Description

The processing content of the ratings image for push distribution replacement feature is common to that of the Wii U Master Editor (GUI version).

4.11 XML File Containing the Input Information (masterspecific.xml)

The XML file that contains the input information (`masterspecific.xml`) is an XML representation of the configurable items in the GUI version of the Master Editor. The command line tool lets you enter the values into `masterspecific.xml` that you previously had to set each time in Master Editor. See Section 4.1 Pre-Processing Mode (Feature for Batch-Setting Values) for information about using this mode.

For configuration details, see the `man/masterspecific_format.xls` and `man/masterspecific.template.xml` files included in the package. Default values are used for configuration items not included in the XML file.

Revision History

Version	Revision Date	Category	Description
1.11	2014/05/01	Changed	2.3.3 Create Submission Data (XML+XSLT) Noted that you can now select the language of the submission data when creating the data.
1.10	2013/12/19	Changed	1.3 Structure Updated the Master Editor screenshot. 2.1 File Menu Noted that a check of input contents occurs when a WUMAD file is loaded and saved. 2.2 Tool Menu Added the Generate masterspecific.xml section 3.1 Error/Warning Deleted SDK caution specific to versions 2.07.03 or earlier 4 Command Line Mode Revised the return values for each command (deleting return value 12 as it is not returned)
		Added	4.9 Hash Value Display Mode 4.10 Ratings Image for Push Distribution Replacement Mode
1.09	2013/10/01	Changed	2.2 Tool Menu Added description for Managing External Checking Tools
1.08	2013/07/19	Changed	1.3 Structure Updated the structure overview. 2.2 Tool Menu Added a description of the menu item for verifying patch continuity. 2.3.3 Create Submission Data (XML+XSLT) Updated information about where submission data is exported. 4 Command Line Mode Changed return values. 4.9 XML File Containing the Input Information (masterspecific.xml) Updated the description.
		Added	4.8 Patch Continuity Verification Mode

Version	Revision Date	Category	Description
1.07	2013/05/31	Changed	• Overall Made overall revisions so that this document covers only descriptions of how to operate the tool. • 1 Introduction Added an indication that the reader needs to see the <i>Wii U Master ROM Creation and Submission Procedures</i> for details on the items that can be set and checked in Master Editor.
		Added	• 4 Command Line Mode
1.06	2013/04/11	Changed	• 2.2 Tool Menu Added a description of the feature under Tool > Settings for switching the user interface language. • 3.1.3 Comments (previously Write to Remarks/Other) Added information about the AAC library.
1.05	2013/04/01	Changed	• Updated to match GUI changes.
	2013/02/12	Changed	• 2.2 Tool Menu Added a description of the “Replacing File” feature. • 2.3.3 Create Submission Revised the description of exported data formats.
1.04	2012/12/03	Changed	• 2.3.1 Rename the data file.(R) Added a description for add-on content cases. • 3.1.3 Write to Remarks/Other. Added a description of the MP4 Demultiplexer library. • 3.4.2 API Information Changed the item names. Deleted a description related to the SDK Information. • 3.4.5 Basic Information Added supplemental information about the add-on content code. • 3.4.6 Boot-related Information Added supplemental information about the build information. • 3.4.13 DDF Information (Simple Display) Added a note that the values are shown in block units. • 4 Error/Warning Added a description of a bug related to the add-on content variation value.

Version	Revision Date	Category	Description
		Added	• 2.3.2 Rename by copying the data file.(C) • 3.4.1 Top of Partition Information Combined "Size Required for Download" and "Displaying Icon Images." • 3.4.4 Build Information • 3.4.7 Storage Information • 3.4.8 Save Data/Boss Data Information • 3.4.9 Region/Rating Information • 3.4.10 Title Name Information • 3.4.11 E-Manual • 3.4.12 Add-On Content
1.03	2012/10/30	Changed	• 2.3.1 Rename the data file.(R) Added a description of automatic renaming for Precheck Submissions. Deleted a note about automatic renaming of submission files when Precheck Submission is selected. • 3.1 Submission Information Deleted Application Usage to match changes to the UI. • 3.1.2 Submission Reason Changed information to match changes to the UI. • 4 Error/Warning Deleted a description of a bug related to the save data size.
		Added	• 3.4.1 Download size
1.02	2012/10/09	Changed	• 3.1.4 Write to Remarks/Other Updated description of e-manual information. • 4 Error/Warning Added note about product code in e-manual. Added note about feature to check hash modes of APPXML and COSXML section names.
1.01	2012/09/19	Changed	• 2.3.1 Rename the data file.(R) Added a precaution about manually renaming files when making Precheck Submissions. • 3.1.3 Submission Reason Changed instructions so that Include application updates is selected in the Modified Item field. • 4 Error/Warning Added precaution about checking SDK version. Removed description of bug causing an error stating that SDK information is not found.

Version	Revision Date	Category	Description
		Deleted	• 3.4 SDK Information
		Added	• 3.4.2 SDK Information • 3.4.3 Middleware Information
1.0	2012/09/15	—	Initial version.

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